

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau

(43) International Publication Date  
9 October 2003 (09.10.2003)

PCT

(10) International Publication Number  
WO 03/082090 A1

(51) International Patent Classification<sup>7</sup>: A61B 5/00

(21) International Application Number: PCT/GB03/01284

(22) International Filing Date: 26 March 2003 (26.03.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
0207370.8 28 March 2002 (28.03.2002) GB

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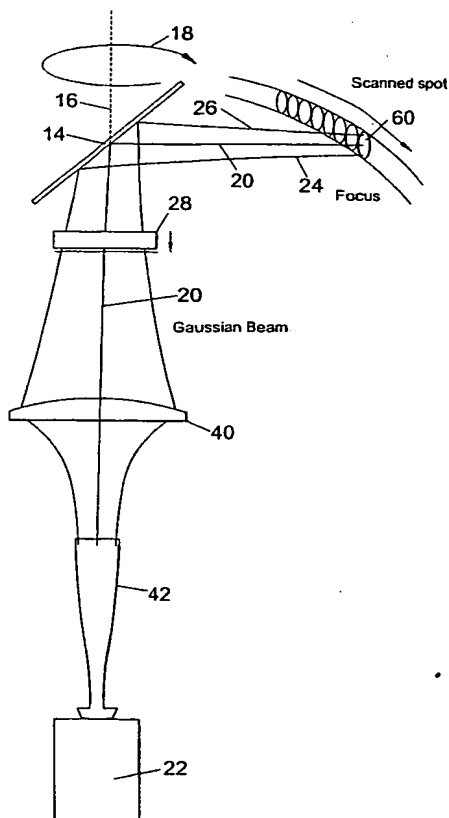
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(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),

[Continued on next page]

(54) Title: MEDICAL IMAGING APPARATUS



(57) Abstract: A medical imaging apparatus for imaging subcutaneous body temperature that comprises a detector (22) for sensing millimetre wave electromagnetic radiation and a collector for collecting radiation emitted from a patient's body and directing it along a collection path (20) to the detector. The collector is configured so that the collected radiation has a defined sensitivity profile across and along substantially the entire length of that path. The collected radiation may have a Gaussian or a Bessel sensitivity profile.